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Subject: Red Hill Document Production - EPA/DOH Request 1.b. / Navy Questions # 6 and 7 - Dates and Estimates of Historical Releases - Tanks 17 and 18

Rebekah/Wade -

The attached documents construction, repairs and historical releases for Red Hill Tanks #17 and 18. This summary report is provided primarily in response to EPA/DOH Request 1.b. and Navy Questions 6 and 7 for information regarding dates and estimated volumes of historical releases.

I note here that estimates regarding the volume of releases are estimates only and were based on information available at the time of the event. Some, and perhaps all, estimates may be inflated due to losses within the system through leaky valves or within the tell-tale system.

Although the attached is provided pursuant to and in the course of negotiations, the sender poses no restrictions on further distribution.

R,
JMW

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RED HILL TANK NO. 17
PRODUCT: JP5

| <u>DATE</u> | <u>REMARKS</u> |
|-------------|--|
| 7/17/51 | Cleaned tank. Labor Cost: \$1890.45. Material: \$470.60 |
| 12/19/59 | Painted blowers. Labor Cost: \$40. Material: \$65. |
| 8/60 | Started conversion of tank under contract No. NBY25540, Conversion of POL Facilities. Telemetering and high level alarm system installed. Converted tank to AVGAS storage. |
| 10/2/63 | Worked on 30 second timer circuit for fuel and water level telemetering. |
| 10/3/63 | Checked amplifier circuit trouble at fuel gauge. Gauge still inoperative; further checks to be made. |
| 10/4/63 | Continued repairs on fuel gauge. |
| 10/7/63 | Removed and corrected twisted R.F. cable on water gauge. |
| 10/23/63 | Fabricated valve platform. Installed on 11/15/64. |
| 11/15/63 | Disconnected and removed amplifier from fuel gauge. Sent unit to PHNSYD for repairs. |
| 10/3/66 | Installed 100' of 1/2" copper tubing for air line (32 hours). |
| 8/16/67 | Started repairing worn motor valve gear box. |
| 8/28/67 | Coated insulating varnish on R.F. cable for fuel gauge. |
| 8/29/67 | Removed and rewired data processor units for fuel and water telemetering. Reinstalled and tested readings. |
| 9/12/67 | Soap-tested and tightened all fittings on tank vent system. Cylinder pressure down to 400 psi. |
| 9/19/67 | Installed motor drive unit to motor valve. |
| 9/20/67 | Completed electrical hookup on motor valve and set limit |

switch.

9/26/67 Removed existing R.F. cable from fuel gauge and tuned amplifier output. Fuel probe was set at 221.960 ft. Tuned amplifier water gauge to indicate probe travel to water level.

9/27/67 Connected data processor for water gauge.

11/9/67 PM on fuel and water gauges. Returned gauge amplifier signal and refinished rotary contacts on digitizer units

in gauges. Checked gauges' operation and telemetering readouts.

11/20/67 Gear slipping. Fuel gauge digitizer unit slipping on shaft. Removed digitizer unit from gauge and repaired.

2/7/69 Composition of deposits taken from railing inside tank.

Description: Light brown particles from 1/16 inch to approximate unit micron in size.

Composition: combustibles

50.8%w

iron oxides

39.2%w

acid insolubles (compounds

4.0%w

of silica)

loss and other components

6.0%w

(lead present in trace amount)

1/20-2/12/69 Cleaned tank. Converted from storage of AVGAS to JP5 fuel. Installed safety gate for elevator in tank. Tested elevator. Installed 3/4" telltale pipe inside of tank

and

outside of tank in Zone #6. Repaired tank fuel and water gauges (348 hours). Labor Cost: \$1,392. Material: \$70. Abandoned collector ring outlet within 16" pipe. Made new connection for collector ring to 4" steam line inside tank and in lower tunnel. (See pictures.)

6/25/69
leaking Leak reported by gauger at Red Hill. Telltale #6
at the rate of one gallon per 1-1/2 minutes. Started
transferring JP5 from tank to surface tank 55 at 1635.
Transferred approximately 20' into Tank 55.
6/27/69 Continued transferring JP5 from tank into Tank #38 via
YON-274. Transferred balance of JP5 into Tank 19.
7/10/69 Tank is empty.
8/1/69 Cleaned tank. Hosed down catwalk, sides and bottom o
tank (7/17/69-8/12/69). Removed 8" drain line valve,
washed out all sludge from inside of drain line. Repaired
and tested 8" standard valve from tank drain line. Valve
was tested at 200 psi; valve okay, but not used for tank.
Installed new 8" standard valve on drain line. Tested
telltale pipelines in tank. Telltale #5 and #6 leaking in
16" drain line. Telltale #8 leaking on 4" coupling inside
of tank. Repaired and painted telltale pipes
(7/17/69-8/8/69. 234 hours at \$4.49). Labor Cost:
\$1,050.66. Material: \$406.10.
8/12/69 Reinstalled manhole
cover.
9/10/69 Installed 3/4" valve on hamer blind. Labor Cost: \$36.
Material: \$95.88
9/24-12/16/69 Repaired leak on telltale #7. Cleaned tank. Removed
eight 1/2" telltale pipes from inside of drain line and
installed manifold. Fabricated manifold from 1-1/2" pipe.
Repaired and calibrated Gilbarco amplifier for fuel gauge
(512 man hours). Labor Cost: \$2,048. Material: \$24.20
9/22/72 Tested and removed defective temperature element. Removed
and repaired amplifier unit from water gauge.
3/20/74 Emptied tank.
3/25/74 Cleaned tank. Labor Cost: \$840.
4/15/74 Representatives from the Navy Research Lab and NAVFAC

inspected the tank coating. Their final recommendation will be forwarded in June 1974.

4/24/74 Buttoned up tank.

1/20/75 Telltale #8 started leaking at 237'.

2/10/78 Manhole cover removed.

3/78 Buttoned up tank.

3/8/78 Removed 8" valve on drain line.

3/20/78 Cleaned bottom of tank.

3/20/78 Replaced 8" valve on drain line.

3/21/78 Replaced manhole cover.

5/24/79 All sampling taps leaking--wired closed.

RED HILL TANK NO.
18 PRODUCT: JP5

DATE REMARKS

12/10/50 Cleaned tank. Labor Cost: \$1595.30. Material: \$475.15

12/59 Painted blower. Labor Cost: \$40. Material: \$36

8/60 Started conversion of tank under contract No. NBY25540
"Conversion of POL Facilities". Telemetering and high
level alarm system installed. Converted tank to AVGAS
storage.

6/63 Buckled plates. Opened tank for inspection. Found plates
buckled on one side and about 20 ft. above catwalk.
Constructed a raft and causeway 50' long.

10/2/63 Worked on 30 second timer circuit for fuel and water level
telemetering on tank.

10/4/63 Increased weight of R.F. cable counterweight and
reinstalled in tank's water gauge.

10/9/63 Removed and cleaned probe on tank's fuel gauge. Replaced
pulley shaft on both fuel and water gauges. Tuned gauges
to proper voltage settings.

10/14/63 Calibrated water gauge on tank. Set level at .008 ft.

10/18/63 Sanded rotary contacts on digitizer in tank's fuel gauge.
(Gauge was blacking out periodically.)

10/22/63 Fabricated valve platform for tank. Installed 11/15/63.

11/12/63 Balanced counterweight on tank's fuel gauge. Gauge read

incorrectly at Receiving Pumphouse due to movement of liquid level probe whenever a telemetering call was made. Adjusted tension on starter bar in digitizer unit to increase friction on tape movement.

6/6/67 Emptied and cleaned for conversion. Telemeter system installed. Converted to AVGAS.

8/29/67 Removed and rewired data processor units for tank's fuel and water telemetering. Reinstalled and tested readings.

11/9/67 PM on fuel and water gauges. Returned gauge amplifier signal and refinished rotary contacts on digitizer units in gauges. Checked gauge operation and telemetering readouts.

12/4/67 Worked on tank. Fuel gauge not corresponding with fuel level. Supervisory console locking in tank gauge, de-energizing relay. Checked circuits in Pearl City

supervisory console. Replaced two electron tubes 50LC on transmitter unit and calibrated line signal to Pearl City system gauge. Okay.

12/12/67 Repacked valves on tank.

2/14/68 Replaced leaky solenoid with new solenoid on tank's vent system. Checked for leaks and tested vent closure (4 hours).

2/27/68 Repaired tank's water telemetering (blacked out).

3/10-17/69 Cleaned tank. Converted from AVGAS to JP5 storage.

Removed and cleaned bonnets from 8" drain line valves.
Also cleaned area below valve. Repaired fuel and water
gauges (195 hours). Labor Cost: \$780.

9/10/69 Installed 3/4" valve on hamer blind. Labor Cost: \$36.

Material: \$95.88.

9/75 Replaced 1" gate valve on drain line.